

10 June 1960

OXC-0645

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TO: All Project Personnel

FROM: [REDACTED]

25X1A

SUBJECT: Redesign of the System

As a result of inadequate side clearance of the platform and the vehicle, it is necessary to change certain system parameters.

The fundamental change is that the inclination of the optical axes after the first fold is now 26.25° from the vertical instead of 30° . [REDACTED] will relocate the optical elements and provide drawings as a basis for new system layouts.

Optical changes which result from this are:

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1. The folding prism must be redesigned.
2. The clear aperture of the folding mirror is reduced slightly

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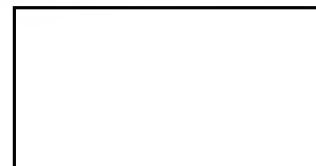
The investigation of these items is the responsibility of [REDACTED]. Furthermore, the plan for optical element alignment in the lens cone should be reexamined.

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The width of the platform is reduced approximately two inches on each side by this change. Redesign of the platform is the responsibility of [REDACTED]. To the extent possible the "V" angle at the bottom of the structure should be brought to 17° on each side from the low point of the scanner. This may require a reduction of clearances between the folding mirror and the lens cone at its lowest point at the forward edge of each optical unit.

An attempt will be made by myself to reorient the gimbal to provide maximum clearance with the forward unit focal plane. Initially, we will attempt to retain the center of gravity on the center plane of the vehicle.

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